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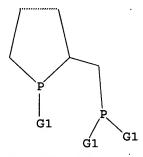
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L1 HAS NO ANSWERS

L1 STI



G1 Cb, Hy, Ak

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 16:01:40 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 256 TO ITERATE

100.0% PROCESSED 256 ITERATIONS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 4161 TO 6079

PROJECTED ANSWERS: 1 TO 80

L2 1 SEA SSS SAM L1

=> s l1 full

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FULL SCREEN SEARCH COMPLETED - 5028 TO ITERATE

100.0% PROCESSED 5028 ITERATIONS . 23 ANSWERS

SEARCH TIME: 00.00.01

L3 23 SEA SSS FUL L1

=> fil caplus

COST IN U.S. DOLLARS SINCE FILE TOTAL

ENTRY SESSION

1 ANSWERS

FULL ESTIMATED COST 161.33 161.54

FILE 'CAPLUS' ENTERED AT 16:01:54 ON 31 MAY 2005 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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FILE COVERS 1907 - 31 May 2005 VOL 142 ISS 23 FILE LAST UPDATED: 30 May 2005 (20050530/ED)
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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 13 L4 4 L3

=> d 1-4 bib abs

L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2004:995769 CAPLUS

DN 141:424300

TI P-chiral phospholanes and phosphocyclic compounds and their use in asymmetric catalytic reactions

IN Zhang, Xumu; Tang, Wenjun

PA The Penn State Research Foundation, USA

SO U.S. Pat. Appl. Publ., 41 pp., Cont.-in-part of U.S. Ser. No. 291,232.

CODEN: USXXCO

Patent

LA English

DT

FAN. CNT 2

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	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
		-			
PI	US 2004229846	A1	20041118	US 2004-856014	20040528
	US 2003144137	A1	20030731	US 2002-291232	20021108
PRAI	US 2001-336939P	P	20011109		
	US 2002-291232	A2	20021108		
~~	GRODEROE 141 40420		NT 141 404300		

OS CASREACT 141:424300; MARPAT 141:424300

AB Chiral ligands and metal complexes based on such chiral ligands useful in asym. catalysis are disclosed. The metal complexes according to the present invention are useful as catalysts in asym. reactions, such as, hydrogenation, hydride transfer, allylic alkylation, hydrosilylation, hydroboration, hydrovinylation, hydroformylation, olefin metathesis, hydrocarboxylation, isomerization, cyclopropanation, Diels-Alder reaction, Heck reaction, isomerization, Aldol reaction, Michael addition; epoxidn., kinetic resolution and [m+n] cycloaddn. Processes for the preparation of the ligands are also described. Thus, preparation of (1S,1S',2R,2R')-1,1'-di-tert-butyl[2,2']diphospholanyl TangPhos was prepared starting from 1,4-dibromobutane, PCl3, and t-BuMgCl and was used as cocatalyst with [Rh(NBD)2]SbF6 for asym. hydrogenation for dehydroamino acids.

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L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
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AN 2004:473396 CAPLUS

DN 141:23728

TI Preparation of phosphine ligands as cocatalysts for asymmetric reactions

IN Osinski, Piotr; Pietrusiewicz, Kazimierz Michal; Schmid, Rudolf

PA Pol.

SO U.S. Pat. Appl. Publ., 29 pp.

CODEN: USXXCO

DT Patent

LA English

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WO 2004050669					A1 20040617			WO 2003-EP12980					20031120						
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OS CASREACT 141:23728; MARPAT 141:23728
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AB The invention is concerned with the preparation of new phosphine ligands I (R1, R2 = independent of each other unsubstituted alkyl, aryl, cycloalkyl, heteroaryl, alkyl, aryl, cycloalkyl, heteroaryl each of which independently is substituted by alkyl, alkoxy, halogen, hydroxy, amino, mono- or dialkylamino, aryl, SO2R7, SO3-, CONR8R8', carboxy, alkoxycarbonyl, trialkylsilyl, diarylalkylsilyl, dialkylarylsilyl or triarylsilyl; R3 = alkyl, cycloalkyl, aryl, heteroaryl; R4', R4 = independent of each other H, alkyl, optionally substituted aryl; or R4 and R4 together with the C-atom they are attached, form a 3-8-membered carbocyclic ring; dotted line is optionally a double bond; R5, R6 = independent of each other H, alkyl, or aryl, R7 = alkyl, aryl; R8, R8' = independent of each other H, alkyl, aryl; the substituents attached by the bold bonds are in cis relation to each other); metal complexes with such ligands in asym. reactions. Thus, preparation of (1S,2S)-cis-1-phenyl-2-[(diphenylphosphino)methyl]phospholane (II) is given in several steps starting from 1-phenylphospholane 1-oxide. Rhodium complex of II catalyzed asym. hydrogenations is also given.

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L4
     ANSWER 3 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
AN
     2003:396818 CAPLUS
     138:401901
DN
     P-chiral phospholanes and phosphocyclic compounds and their use in
TI
     asymmetric catalytic reactions
IN
     Zhang, Xumu; Tang, Wenjun
PA
     The Penn State Research Foundation, USA
     PCT Int. Appl., 70 pp. .
SO
     CODEN: PIXXD2
DT
     Patent
     English
LΑ
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FAN.CNT 2
     PATENT NO.
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                               DATE
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     WO 2003042135
                                           WO 2002-US35788
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                               20030522
                                                                  20021108
                         A2
                               20031224
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                                         EP 2002-803182
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JP 2005509012 T2 20050407 PRAI US 2001-336939P P 20011109

WO 2002-US35788 W 20021108

OS CASREACT 138:401901; MARPAT 138:401901

GΙ

Ι

AB Chiral ligands and metal complexes based on such chiral ligands useful in asym. catalysis are disclosed. The metal complexes according to the present invention are useful as catalysts in asym. reactions, such as, hydrogenation, hydride transfer, allylic alkylation, hydrosilylation, hydroboration, hydrovinylation, hydroformylation, olefin metathesis, hydrocarboxylation, isomerization, cyclopropanation. Diels-Alder reaction, Heck reaction, isomerization, Aldol reaction, Michael addition; epoxidn., kinetic resolution and [m+n] cycloaddn. Processes for the preparation of the ligands are also described. Thus, Grignard reaction of BrMgCH2(CH2)2CH2MgBr with PCl3 in the presence of t-BuMgCl in THF followed by thianation gave 1-tert-butylphospholane 1-sulfide which on BuLi/CuCl2-mediated coupling in presence of (-)-sparteine followed desulfurization with hexachlorodisilane/C6H6 gave title phospholane, [Rh(COD)2]BF4-I mediated asym. catalytic reactions are TangPhos I. described.

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2002:169604 CAPLUS

DN 136:232394

TI Preparation of optically active 2-(phosphinomethyl)phospholane derivatives as ligands for asymmetric synthesis catalysts

IN Kobayashi, Osamu

PA Foundation for Scientific Technology Promotion, Japan; Japan Science and Technology Agency

SO Jpn. Kokai Tokkyo Koho, 10 pp.

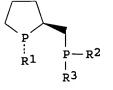
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DT Patent

LA Japanese

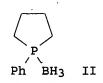
FAN. CNT 1

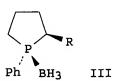
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	JP 3537749	B2	20040614	•	
PRAI	JP 2000-256073		20000825		
os	CASREACT 136:232394;	MARPA	T 136:232394		
GI				•	



AB

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R3 are linked to each other to form a ring] are prepared, e.g. by (1) reaction of 1,4-dihalobutane (e.g. 1,4-dibromobutane) with metal (e.g. Mg) followed by cyclocondensation of the organometallic compound [e.g. Grignard reagent BrMg(CH2)4MgBr] with phenylphosphine and reaction with borane-THF complex to form 1-phenylphospholane-borane complex (II), (2) carboxylation of II and optical resolution to give 1-phenylphospholane-2-carboxylic acid-borane complex (III; R = CO2H), (3) reduction of III (R = CO2H) to 1-phenylphospholane-2-methanol-borane complex III (R = CH2OH), (4) mesylation of III (R = CH2OH) with methanesulfonyl chloride to mesylate III (R = CH2OSO2Me), (5) reaction of III (R = CH2OSO2Me) with diphenylphosphine in the presence of a base followed by reaction with borane-THF complex to give 2-(diphenylphosphinomethyl)-1-phenylphospholane-borane complex III (R = CH2PPh2-BH3), and (6) removing borane from III (R = CH2PPh2-BH3) to give optically active I (R1 = R2 = R3 = Ph).